

Amendment and Response

Applicant: Philip K. Zietlow et al.

Serial No.: 09/887,702

Filed: March 1, 2001

Docket No.: 5183USAD1

Title: METHOD AND APPARATUS FOR PROCESSING AN AERATED CONFECTIONERY FOAM ROPE

IN THE CLAIMS

Please add claim 41.

Please amend claims 17, 23, and 26 as follows:

1-16.(Cancelled)

17.(Currently Amended) A system for processing at least one rope of aerated confectionery foam, the system comprising:

an aerated confectionery foam stream;

an extruder configured to extrude at least one rope of aerated confectionery foam from the stream;

a conveyor for conveying the rope from the extruder, the conveyor terminating in a leading end; and

a rotary cutter positioned proximate the leading end of the conveyor, the rotary cutting being configured to cut the rope into pieces at a rate of at least 5,000 cuts per minute during a cutting operation.

18.(Previously Presented) The system of claim 17, further comprising:

an anvil support bar positioned between the leading end of the conveyor and the rotary cutter, the anvil support bar configured to maintain the rope during the cutting operation.

19.(Previously Presented) The system of claim 18, wherein the anvil support bar is an elongated body including a top wall for receiving the rope, a bottom wall, and first and second opposing side walls extending between the bottom and top walls, the anvil support bar being positioned such that the first side wall is adjacent the leading end of the conveyor and the second side wall is adjacent the rotary cutter.

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20.(Previously Presented) The system of claim 19, wherein the first side wall is concave to provide clearance for the leading end of the conveyor.

21.(Previously Presented) The system of claim 19, wherein the second side wall is configured to provide a guide surface for directing a piece cut from the rope away from the rope.

22.(Previously Presented) The system of claim 21, wherein the guide surface is recessed relative to a remainder of the second side wall.

23.(Currently Amended) The system of claim 19, wherein the anvil ~~cutter~~support bar is positioned such that a corner formed by the top wall and the second side wall is spaced approximately 0.005 inch from the rotary cutter.

24.(Previously Presented) The system of claim 17, further comprising:
a drive roller located above the leading end of the conveyor, the drive roller and the conveyor forming a gap sized to engage the rope.

25.(Previously Presented) The system of claim 24, wherein a height of the gap is variable.

26.(Currently Amended) The system of claim 24, wherein the drive roller and the conveyor are positioned relative to each other such that they are capable of directing the rope to the rotary cutter via their concerted action.~~act in concert to direct the rope to the rotary cutter.~~

27.(Previously Presented) The system of claim 26, further including:
a timing mechanism for correlating a speed of the conveyor with a speed of the drive roller.

28.(Previously Presented) The system of claim 17, further comprising:

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a starch depositor located between the extruder and the rotary cutter for applying powdered starch to the rope.

29.(Previously Presented) The system of claim 28, further comprising a shroud surrounding the rotary cutter for capturing starch dust generated during a cutting operation.

30.(Previously Presented) The system of claim 29, further comprising a vacuum source fluidly connected to the shroud for creating a negative pressure within the shroud.

31.(Previously Presented) The system of claim 17, wherein the rotary cutter includes a plurality of elongated blades equidistantly spaced along a perimeter of at least one housing plate.

32.(Previously Presented) The system of claim 31, wherein the rotary cutter includes 8 blades.

33.(Previously Presented) The system of claim 31, wherein each of the plurality of blades include a material face, a rake face and a guide face, the material face and the rake face combining to define a cutting angle in the range of approximately 25°-45°.

34. (Previously Presented) The system of claim 33, wherein the cutting angle is approximately 35°.

35.(Previously Presented) The system of claim 33, wherein each of the plurality of blades are secured to the at least one housing plate such that the material face is substantially perpendicular to the rope during the cutting operation.

36. (Withdrawn) A mass produced marbit flake comprised of an aerated confectionery foam and having a thickness of less than 0.125 inch.

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37.(Withdrawn) The marbit flake of claim 36 having a thickness of approximately 0.0625 inch.

38.(Withdrawn) The marbit flake of claim 36, wherein the marbit flake has a shaped periphery.

39.(Withdrawn) A mass produced marbit flake comprised of an aerated confectionery foam and having a length:thickness aspect ratio in the range of approximately 32:5-48:5.

40.(Withdrawn) The marbit flake of claim 39, wherein the marbit flake has a shaped periphery.

41.(New) A system for processing at least one rope of aerated confectionery foam, the system comprising:

an extruder configured to extrude at least one rope of aerated confectionery foam;

a conveyor for conveying the rope from the extruder, the conveyor terminating in a leading end;

a rotary cutter positioned proximate the leading end of the conveyor, the rotary cutting being configured to cut the rope into pieces at a rate of at least 5,000 cuts per minute during a cutting operation;

a starch depositor located between the extruder and the rotary cutter for applying powered starch to the rope;

a shroud surrounding the rotary cutter for capturing starch dust generated during the cutting operation; and

a vacuum source fluidly connected to the shroud for creating a negative pressure within the shroud.